

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

A. Saksena *et al.*

Serial No.: 10/052,386

Filed: January 18, 2002

-)
) Examiner: Not assigned yet
)
) Group Art Unit: Not assigned yet
)
)
) Atty. Docket No.: IN01159K1

For: **NOVEL PEPTIDES AS NS3-SERINE PROTEASE INHIBITORS OF
HEPATITIS C VIRUS**

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

It is requested that the following documents cited in the application, as listed below and in the accompanying form PTO-1449, be considered and made of record.

Documents cited in the Application:

U.S. 5,712,145
WO 89/04669
WO 98/17679
WO 98/22496
WO 99/07734
WO 00/09558
WO 00/09543
EP 381 216

Publications:

Pizzi *et al.* (1994) Proc. Natl. Acad. Sci (USA) 91:888-892
Failla *et al.* (1996) Folding & Design 1:35-42
Kollykhalov *et al.* (1994) J. Virol. 68:7525-7533
Komoda *et al.* (1994) J. Virol. 68:7351-7357
Landro *et al.* (1997) Biochem. 36:9340-9348
Ingallinella *et al.* (1998) Biochem. 37:8906-8914
Llinàs-Brunet *et al.* (1998) Bioorg. Med. Chem. Lett. 8:1713-1718
Martin *et al.* (1998) Biochem. 37:11459-11468
Dimasi *et al.* (1997) J. Virol. 71:7461-7469
Martin *et al.* (1997) Protein Eng. 10:607-614
Elzouki *et al.* (1997) J. Hepat. 27:42-48
BioWorld Today 9(217): 4 (November 10, 1998)
Berenguer *et al.* (1998) Proc. Assoc. Am. Physicians 110(2):98-112
Hoofnagle *et al.* (1997) N. Engl. J. Med. 336:347
R. Zhang *et al.*, Analytical Biochemistry, 270 (1999) 268-275

- D. L. Sali *et al*, *Biochemistry*, 37 (1998) 3392-3401
K. Barlos *et al*, *Int. J. Pept. Protein Res.*, 37 (1991), 513-520
K. Holmberg *et al*, *Acta Chem. Scand.*, B33 (1979) 410-412
A. Marchetti *et al*, *Synlett.*, S1 (1999) 1000-1002
W. Han *et al*, *Bioorganic & Biomedicinal Chem Lett.*, 10 (2000) 711-713
S. Agrawal *et al*, "Development and Characterization of Hepatitis C Virus Serine Protease Cell-based Trans-Cleavage Assay", *Hepatology* Supplement to Volume 30 (No. 4, Part 2, October 1999), Abstract No. 615 (Proceedings of AASLD 50th Annual Meeting, Dallas, Texas, November 5-9, 1999.
L. Hughes, *Org. Reactions*, 42 (1992) 335.
R. F. Heck, *Org. Reactions*, 27 (1989) 345-390.

All the above-noted documents, along with copies of the references, were submitted in the IDS and PTO-1449 that Applicant filed for the priority case, IN01159K, Serial No. 09/908,955, filed July 19, 2001 . Applicants are, therefore, not sending copies of the documents again. If, however, the Examiner needs copy of any of the references, the Examiner is invited to contact the undersigned.

The submission of these documents is not to be presumed as an admission that these documents are prior art. Since no Office Action has issued on the merits of this case, Applicants believe that no fee is due at this time. If, however, any fees are due, the Office may charge such fees to Deposit Account No. 19-0365.

Respectfully submitted,

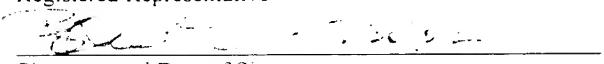
July 30, 2002
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Registered Representative


Signature and Date of Signature

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TRANSMITTAL
FORM

(to be used for all correspondence after initial filing)

		Application Number	10 052,386
		Filing Date	January 18, 2002
		First Named Inventor	SAKSENA, et al
		Group Art Unit	TBA
		Examiner Name	TBA
Total Number of Pages in This Submission	5	Attorney Docket Number	IN01159K1

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below)
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		
Return Post Card Form 1449		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	SCHERING-PLough CORPORATION PATENT DEPARTMENT, K-6-1-1990 PALAIYUR S. KALYANARAMAN	REG. NO. 34, 634
Signature		
Date	July 30, 2002	

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: July 30, 2002

Typed or printed name	PALAIYUR S. KALYANARAMAN		
Signature		Date	July 30, 2002

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Sheet 1 of 1

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: IN01159K1	SERIAL NO.: 10/052,386
PATENT & TRADEMARK OFFICE		INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT: SAKSENA, et al	
		(Use several sheets if necessary)		FILING DATE: 01/18/2002	GROUP: TBA

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
	AD	WO 01 74768	10/11/01	WIPO			
	AE	WO 01 40262	06/07/01	WIPO			
	AF	WO 00 52032	09/08/00	WIPO			
	AG	WO 99 07734	02/18/99	WIPO			
	AH	WO 98 17679	04/30/98	WIPO			
	AI						
	AJ						
	AK						
	AJ						
	AK						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	WEI HAN, et al, "alpha-Ketoamides, alpha-ketoesters and alpha-diketones as HCV NS3 protease inhibitors", <i>BIOORGANIC & MEDICINAL CHEMISTRY LETTERS</i> , Vol. 10, No. 8, (2000), pp. 711-713.
AM	LLINAS-BRUNET MONTSE, et al, "Studies on the c-terminal of hexapeptide inhibitors of the hepatitis C virus serine protease", <i>BIOORGANIC & MEDICINAL CHEMISTRY LETTERS</i> , Vol. 8, No. 19, (1998), pp. 2719-2724.
AN	
AO	
AP	
AQ	

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.